Homework

FMT Text page 61 (photocopy) #3-5

3. a) $2x(a+b)+y(a+b)$

$(a+b)(2x+y)$

b) $3m(x-y)-k(x-y)$

$(x-y)(3m-k)$

<u>Factor By Grouping</u> - sometimes there is no GCF amongst all of the terms in the polynomial.

- as a result, "pairing" certain terms together and removing a common factor may lead to the polynomial being factorable.

- usually done when polynomial has FOUR terms.

EXAMPLES...

1) $10x^2 - 5xy - 6x + 3y$

$5x(2x-y)-3(2x-y)$

$(2x-y)(5x-3$

2) $3mx - n + m - 3nx$

$3mx-3nx-n+m$

$3x(m-n)+m-n$

$3x(m-n)+1(m-n)$

$(3x+1)(m-n)$

Extra practice

Attachments

Factoring By Grouping.pdf